BLACK BOX®
NETWORK SERVICES

ETL-Verified GigaBase CAT5e Channel Solution

GigaBase® 350 CAT5e
350-MHz Solid Bulk Cable (UTP)

Applications
- 10/100/1000BASE-T
- 100BASE-VG
- 155-Mbps and 622-Mbps ATM
- Other high-performance cable applications
  – Backbone
  – Floor-to-floor backbone
  – Horizontal cabling to desktop

Compliance
- ISO/IEC 11801
- TIA/EIA-568-B.2 Category 5e
- ANSI/ICEA S-90-661 (Category 5X-100)
- NEMA WC63.1 (Category 5)
- UL® listed and PCC compliant
- PVC: CMR, FT4; Plenum: CMP, FT6

Specifications
Cable Type: 4-pair UTP
Capacitance Unbalance (Maximum):
   3300pF/km (pair to ground)
Characteristic Impedance: 1–350 MHz: 100 ± 15 ohms
Conductor: 24 AWG, solid, bare copper
Conductor Resistance: 93.8 ohm/20° C maximum
DC Resistance (Maximum): 8.9 ohms/100 m (32 ft.)
Delay Skew (Maximum): 1–350 MHz: 40 nS/100 m
Input Impedance: 1–100 MHz: 100 ± 15 ohms;
   100–200 MHz: 100 ± 22 ohms
Outside Diameter: PVC: 0.2" (0.51 cm);
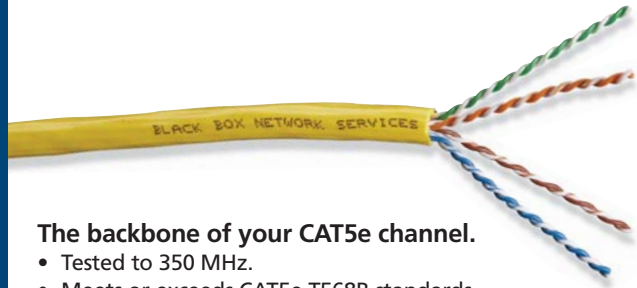   Plenum: 0.17" (0.43 cm)
Velocity of Propagation (Minimum): 62.1% @ 350 MHz
Weight: PVC: 22 lb./1000 ft. (10 kg/304.8 m);
   Plenum: 25 lb./1100 ft. (11.3 kg/335.2 m) or
      22 lb./1000 ft. (10 kg/304.8 m)

The backbone of your CAT5e channel.
- Tested to 350 MHz.
- Meets or exceeds CAT5e T568B standards.
- Easy-to-use pull box features Accu-Pull Measuring System.
- Cable is marked in descending two-foot increments so you always know how much cable is in the box.
- Extra headroom provides room for growth.
- Low attenuation and power-sum crosstalk.

Construction facts.
- PVC cable has polyolefin insulation and a flame-retardant jacket.
- The plenum cable has FEP insulation and features a compound jacket that's rated to 32° F (0° C) for low-temperature handling.
- Both have a longitudinal rip cord for easy jacket opening.

Guaranteed for life.
- You're covered. We guarantee—for life—this cable and all the products in our GigaBase line.

Proven performance.
- InterTek Testing Services/ETL Semko, Inc. conducted active testing on the GigaBase CAT5e channel solution, and it passed with zero errors.
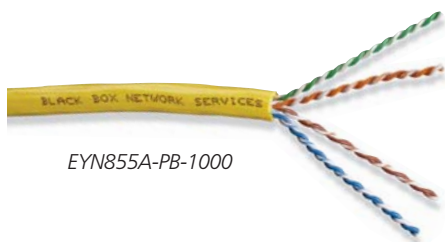
GigaBase 350 CAT5e Solid Bulk Cable Electrical Specifications

Frequency MHz (maximum)	Attenuation dB/100 m (328 ft.) (maximum)	ACR dB/100 m (328 ft.) (maximum)	PS-ACR dB/100 m (328 ft.) (minimum)	NEXT dB/100 m (328 ft.) (minimum)	PS-NEXT dB/100 m (328 ft.) (minimum)	ELFEXT dB/100 m (328 ft.) (minimum)	PS-ELFEXT dB/100 m (328 ft.) (minimum)	Return Loss dB (minimum)
1	2	66.3	64.3	68.3	66.3	63.8	60.8	20
4	4.1	55.2	53.2	59.3	57.3	51.7	48.7	23
8	5.8	49	47	54.8	52.8	45.7	42.7	24.5
10	6.5	46.8	44.8	53.3	51.3	43.8	40.8	25
16	8.2	42.1	40.1	50.3	59.3	39.7	36.7	25
20	9.3	39.5	37.5	48.8	46.8	37.8	34.8	25
25	10.4	36.9	34.9	47.3	45.3	35.8	32.8	24.3
31.25	11.7	34.2	32.2	45.9	43.9	33.9	30.9	23.6
62.5	17	24.4	22.4	41.4	39.4	27.8	24.8	21.5
100	22	16.3	14.3	38.3	36.3	23.8	20.8	20.1
155	28.1	7.4	5.4	35.5	33.5	20	17	18.8
200	32.4	1.4	0	33.8	31.8	17.7	14.7	18
240	36	NA	NA	32.6	30.6	16.2	13.2	17.4
300	41	NA	NA	31.2	29.2	14.2	11.2	16.8
350	44.9	NA	NA	30.1	28.1	12.9	9.9	16.3

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ETL-Verified GigaBase CAT5e Channel Solution

EYN855A-PB-1000

GigaBase 350 CAT5e, 350-MHz Solid Bulk Cable (UTP)

ORDERING INFORMATION

4-Pair, 1000-feet (304.8-m) or 1100-feet (335.2-m), Pull Box

Color	Catalog No., PVC Riser	Catalog No., Plenum
Blue	EYN851A-PB-1000	EYN850A-PB-1000
Yellow	EYN855A-PB-1000	EYN854A-PB-1100
White	EYN853A-PB-1000	EYN852A-PB-1000
Gray	EYN857A-PB-1000	EYN856A-PB-1000
Green	EYN859A-PB-1000	EYN858A-PB-1000
Red	EYN849A-PB-1000	EYN848A-PB-1100

EVNSL81

FMT922-R2

JPM906A-R4

- Premium 350-MHz cable.

- Universal wiring.

- For 350-MHz applications.

GigaBase 350 CAT5e Patch Cables (UTP)

ORDERING INFORMATION

Snagless Boots, Stranded, 24 AWG, 4-Pair, PVC, Straight-Pinned

Length		Catalog No.
1-ft.	(0.3-m)	EVNSLXX-0001
2-ft.	(0.6-m)	EVNSLXX-0002
3-ft.	(0.9-m)	EVNSLXX-0003
4-ft.	(1.2-m)	EVNSLXX-0004
5-ft.	(1.5-m)	EVNSLXX-0005
6-ft.	(1.8-m)	EVNSLXX-0006
7-ft.	(2.1-m)	EVNSLXX-0007
10-ft.	(3.0-m)	EVNSLXX-0010
15-ft.	(4.5-m)	EVNSLXX-0015
20-ft.	(6.0-m)	EVNSLXX-0020
25-ft.	(7.6-m)	EVNSLXX-0025
30-ft.	(9.1-m)	EVNSLXX-0030
50-ft.	(15.2-m)	EVNSLXX-0050
100-ft.	(30.4-m)	EVNSLXX-0100
Custom Lengths		EVNSLXX

To order, replace the "**XX**" with the color number.

Gray = 80	Yellow = 84	Purple = 88
Blue = 81	Beige = 85	Orange = 89
Green = 82	Pink = 86	White = 90
Red = 83	Black = 87	

GigaBase2 CAT5e Jacks

ORDERING INFORMATION

Color	Catalog No.
Blue	FMT920-R2
Black	FMT921-R2
Ivory	FMT922-R2
Gray	FMT923-R2
Green	FMT924-R2
Office White	FMT925-R2
Orange	FMT926-R2
Red	FMT927-R2
White	FMT929-R2
Yellow	FMT930-R2

For 25, add -25-PAK to the end of the code.

GigaBase CAT5e Patch Panels

ORDERING INFORMATION

Universal Wiring	Catalog No.
24-Port, 1.75"H, 1U	JPM902A-R4
48-Port, 3.5" H, 2U	JPM906A-R4
96-Port, 7.0" H, 4U	JPM910A-R4

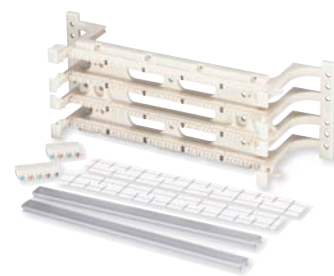All include cable ties and mounting hardware.

GigaStation 2 Wallplates

GigaStation2 Wallplates are available in multiple configurations. For details, see **blackbox.com**. Type WPT454 in the Search Catalog field.

GigaBase2 Wiring Block Kits

GigaBase2 Wiring Block Kits are also available. For details and kit contents, see **blackbox.com**. Type JP022-KIT in the Search Catalog field.

TECH SPECS

Attenuation (Maximum) —
24.2 dB/100 m (328.1 ft.) @ 100 MHz;
49.3 dB/100 m (328.1 ft.) @ 350 MHz

Impedance — 100 ± 15 ohms

NEXT (Minimum) —
40.3 dB/100 m (328.1 ft.) @ 100 MHz;
32.2 dB/100 m (328.1 ft.) @ 350 MHz

PS-NEXT (Minimum) —
38.3 dB/100 m (328.1 ft.) @ 100 MHz;
30.2 dB/100 m (328.1 ft.) @ 350 MHz

Return Loss (Minimum) —
20.1 dB/100 m (328.1 ft.) @ 100 MHz;
16.3 dB/100 m (328.1 ft.) @ 350 MHz

For ETL test results, call 724-746-5500 or go to blackbox.com/Promos/channelsolutions.aspx